



PATENT

Case Docket No. NIH099.001C1

Date: December 7, 2000

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In re application of : Luyten et al.  
App. No. : 09/574,819  
Filed : May 19, 2000  
For : DNA MOLECULES  
ENCODING CARTILAGE-  
DERIVED  
MORPHOGENETIC  
PROTEINS (AS  
AMENDED)  
Examiner : Unknown  
Art Unit : Unknown

I hereby certify that this correspondence and all marked  
attachments are being deposited with the United States Postal  
Service as first class mail in an envelope addressed to:  
Assistant Commissioner for Patents, Washington, D.C.  
20231, on

December 7, 2000

(Date)

Nancy W. Vensko, Reg. No. 36,298

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ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

Sir:

Transmitted herewith is a Preliminary Amendment in the above-identified application.

The fee has been calculated as shown below:

## CLAIMS AS FILED

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE
Total Claims	6	26	= 0 ×	\$18	= \$0
Independent Claims	1	6	= 0 ×	\$80	= \$0
If application has been amended to contain multiple dependent claim(s), then add				\$270	= \$0
Time Extension Fee					\$0
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0

(X) Substitute Figure 4.

(X) Return prepaid postcard.



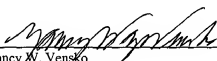
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- (X) Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410. A duplicate copy of this sheet is enclosed.

  
\_\_\_\_\_  
Nancy W. Vensko  
Registration No. 36,298  
Attorney of Record

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Luyten et al. ) Group Art Unit unknown  
 Appl. No. : 09/574,819 )  
 Filed : May 19, 2000 )  
 For : DNA MOLECULES )  
 ENCODING CARTILAGE- )  
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 MORPHOGENETIC )  
 PROTEINS (AS AMENDED)  
 Examiner : unknown

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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
 Washington, D.C. 20231

Dear Sir:

Prior to examination of this application:

IN THE CLAIMS:

**Please cancel all pending claims, that is, Claims 1-26, without prejudice, and add the following Claims 27-32:**

27. An isolated DNA molecule which codes for a protein of the TGF- $\beta$  family, wherein said protein comprises a sequence W4-(I/M/V)-A-P-L-(D/E)-Y-E-A-(Y/F/H)-H-C-E-G-(L/V)-C-(D/E)-F-P-L-R-S-H-L-E-P-T-N-H-A (SEQ ID NO:15).
28. An expression vector comprising the isolated DNA molecule of Claim 27.
29. A host cell transformed with the vector of Claim 28.
30. The host cell of Claim 29 wherein said cell is eukaryotic.
31. The host cell of Claim 30 wherein said cell is mammalian.
32. A process for the production of a protein of the TGF- $\beta$  family comprising the steps of culturing the host cell of Claim 29 in a culture media, and isolating a protein of the TGF- $\beta$  family therefrom.